BRUHAT BENGALURU MAHANAGARA PALIKE,
BYATARAYANAPURA DIVISION

Bruhat Bengaluru Mahanagara Palike

Name of Work: IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

QUALITY CONTROL REPORTS

"FIRST AND FINAL BILL"

MOBILE: 9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: BTP- D/PMC/TATA/Cement Date: 02/02/2023

1. Test report on cement Concrete Cubes:

Sub: Testing of 53 Grade Cement Sample Pertaining to IS: 12269-1987

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

PHYSICAL TESTS ON CEMENT

Grade Of Cement: 53, OPC

Table 1.1

SL No	Name of Tests	Result	As Per IS Requirements (IS 8112-1989)
1.	Initial Setting Time	141 Min	Shall Not be less than 30 Min
2.	Final Setting Time	280 Min	Shall Not be More than 600 Min
3.	Fineness (by dry sieve on IS 90 micron Seieve)	1.80 %	Not to Exceed 10.0 %
4.	Soundness Test by Lee-Chatelier's Method	2.10 mm	Shall not be more than 10 mm
5.	Compressive strength (3 days on average of 3 results	28.40 N/Sqmm	Shall not be less than 27 N /Sq mm

SHRIYA CONSTRUCTION AND CONSULTANCY

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SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: BTP- D /PMC/TATA/Cement Date: 08/03/2023

1. Test report on cement Concrete Cubes:

Sub: Testing of 53 Grade Cement Sample Pertaining to IS: 12269-1987

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/s K R Constructions (Prop. Sri C Mahesh).

PHYSICAL TESTS ON CEMENT

Grade Of Cement: 53, OPC

Table 1.1

SL No	Name of Tests	Result	As Per IS Requirements (IS 8112-1989)
1.	Initial Setting Time	153 Min	Shall Not be less than 30 Min
2.	Final Setting Time	301 Min	Shall Not be More than 600 Min
3.	Fineness (by dry sieve on IS 90 micron Seieve)	2.00%	Not to Exceed 10.0 %
4.	Soundness Test by Lee-Chatelier's Method	2.00 mm	Shall not be more than 10 mm
5.	Compressive strength (3 days on average of 3 results	30.50 N/Sqmm	Shall not be less than 27 N /Sq mm

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SHRIYA CONSTRUCTION AND CONSULTANCY

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NO: BTP- D/PMC/TATA /Cement Date: 24/03/2023

1. Test report on cement Concrete Cubes:

Sub: Testing of 53 Grade Cement Sample Pertaining to IS: 12269-1987

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/s K R Constructions (Prop. Sri C Mahesh).

PHYSICAL TESTS ON CEMENT

Grade Of Cement: 53, OPC

Table 1.1

SL No	Name of Tests	Result	As Per IS Requirements (IS 8112-1989)
1.	Initial Setting Time	155 Min	Shall Not be less than 30 Min
2.	Final Setting Time	273 Min	Shall Not be More than 600 Min
3.	Fineness (by dry sieve on IS 90 micron Seieve)	1.95 %	Not to Exceed 10.0 %
4.	Soundness Test by Lee-Chatelier's Method	2.10 mm	Shall not be more than 10 mm
5.	Compressive strength (3 days on average of 3 results	28.50 N/Sqmm	Shall not be less than 27 N /Sq mm

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SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: BTP- D/PMC/TATA /Cement Date: 05/04/2023

1. Test report on cement Concrete Cubes:

Sub: Testing of 53 Grade Cement Sample Pertaining to IS: 12269-1987

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/s K R Constructions (Prop. Sri C Mahesh).

PHYSICAL TESTS ON CEMENT

Grade Of Cement: 53, OPC

Table 1.1

SL No	Name of Tests	Result	As Per IS Requirements (IS 8112-1989)
1.	Initial Setting Time	175 Min	Shall Not be less than 30 Min
2.	Final Setting Time	270 Min	Shall Not be More than 600 Min
3.	Fineness (by dry sieve on IS 90 micron Seieve)	1.97 %	Not to Exceed 10.0 %
4.	Soundness Test by Lee-Chatelier's Method	2.13 mm	Shall not be more than 10 mm
5.	Compressive strength (3 days on average of 3 results	29.55 N/Sqmm	Shall not be less than 27 N /Sq mm

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NO: BTP- D/PMC/TATA /Cou Agg

Date: 02/02/2023

TEST REPORT ON COURSE AGGREGATES (GRADATION TEST)

Sub: To conduct tests on Course Aggrigates (Grade-V) mix.

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**97.15**	95-100
26.50	**---**	-
22.40	**79.25**	60-80
11.20	**53.40**	40-60
4.75	**36.15**	25-40
2.36	**24.60**	15-30
0.600	**19.35**	8-22
0.075	**3.85**	0-5

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TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)–1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.85%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.20%**	Not more than 35.0 %
3.	Water absorption, %	**0.45 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: BTP- D/PMC/TATA /Cou Agg Date: 02/02/2023

TEST REPORT ON COURSE AGGREGATES
(GRADATION TEST)

Sub: To conduct tests on Course Aggrigates (Grade-V) mix.

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**94.35**	95-100
26.50	**---**	-
22.40	**74.15**	60-80
11.20	**52.10**	40-60
4.75	**36.45**	25-40
2.36	**26.70**	15-30
0.600	**18.05**	8-22
0.075	**3.45**	0-5

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TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)–1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**26.60%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**29.70 %**	Not more than 35.0 %
3.	Water absorption, %	**0.46 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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NO: BTP- D/PMC/TATA /Cou Agg

Date: 08/03/2023

TEST REPORT ON COURSE AGGREGATES
(GRADATION TEST)

Sub: To conduct tests on Course Aggrigates (Grade-V) mix.

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**94.35**	95-100
26.50	**---**	-
22.40	**74.15**	60-80
11.20	**52.10**	40-60
4.75	**36.45**	25-40
2.36	**26.70**	15-30
0.600	**18.05**	8-22
0.075	**3.45**	0-5

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TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)–1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.60%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**29.80 %**	Not more than 35.0 %
3.	Water absorption, %	**0.40 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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NO: BTP- D/PMC/TATA /Cou Agg Date: 08/03/2023

TEST REPORT ON COURSE AGGREGATES
(GRADATION TEST)

Sub: To conduct tests on Course Aggrigates (Grade-V) mix.

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**97.15**	95-100
26.50	**---**	-
22.40	**79.25**	60-80
11.20	**53.40**	40-60
4.75	**36.15**	25-40
2.36	**24.60**	15-30
0.600	**19.35**	8-22
0.075	**3.85**	0-5

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TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)–1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.80%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.35%**	Not more than 35.0 %
3.	Water absorption, %	**0.41 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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NO: BTP- D/PMC/TATA /Cou Agg

Date: 08/03/2023

TEST REPORT ON COURSE AGGREGATES
(GRADATION TEST)

Sub: To conduct tests on Course Aggrigates (Grade-V) mix.

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**94.35**	95-100
26.50	**---**	-
22.40	**74.15**	60-80
11.20	**52.10**	40-60
4.75	**36.45**	25-40
2.36	**26.70**	15-30
0.600	**18.05**	8-22
0.075	**3.45**	0-5

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SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)–1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.55%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.63 %**	Not more than 35.0 %
3.	Water absorption, %	**0.41 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: BTP- D/PMC/TATA /Cou Agg Date: 24/03/2023

TEST REPORT ON COURSE AGGREGATES
(GRADATION TEST)

Sub: To conduct tests on Course Aggrigates (Grade-V) mix.

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**94.35**	95-100
26.50	**---**	-
22.40	**74.15**	60-80
11.20	**52.10**	40-60
4.75	**36.45**	25-40
2.36	**26.70**	15-30
0.600	**18.05**	8-22
0.075	**3.45**	0-5

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SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)–1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.54%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.65 %**	Not more than 35.0 %
3.	Water absorption, %	**0.42 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: BTP- D/PMC/TATA /Cou Agg

Date: 24/03/2023

TEST REPORT ON COURSE AGGREGATES (GRADATION TEST)

Sub: To conduct tests on Course Aggrigates (Grade-V) mix.

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**97.15**	95-100
26.50	**---**	-
22.40	**79.25**	60-80
11.20	**53.40**	40-60
4.75	**36.15**	25-40
2.36	**24.60**	15-30
0.600	**19.35**	8-22
0.075	**3.85**	0-5

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SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)–1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.83%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.30%**	Not more than 35.0 %
3.	Water absorption, %	**0.40 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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MOBILE: 9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: BTP- D/PMC/TATA /Cou Agg

Date: 05/04/2023

TEST REPORT ON COURSE AGGREGATES
(GRADATION TEST)

Sub: To conduct tests on Course Aggrigates (Grade-V) mix.

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**94.35**	95-100
26.50	**---**	-
22.40	**74.15**	60-80
11.20	**52.10**	40-60
4.75	**36.45**	25-40
2.36	**26.70**	15-30
0.600	**18.05**	8-22
0.075	**3.45**	0-5

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TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)–1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.65%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.73 %**	Not more than 35.0 %
3.	Water absorption, %	**0.45 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

SHRIYA CONSTRUCTION AND CONSULTANCY

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SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: BTP- D/PMC/TATA /WMM Grad Date: 18-04-2023

TEST REPORT ON WET MIX MACADAM MIX (GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**97.15**	95-100
26.50	---	-
22.40	**79.26**	60-80
11.20	**53.41**	40-60
4.75	**36.16**	25-40
2.36	**24.61**	15-30
0.600	**19.32**	8-22
0.075	**3.82**	0-5

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TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)–1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.80%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.35%**	Not more than 35.0 %
3.	Water absorption, %	**0.43 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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NO: BTP- D/PMC/TATA /WMM Grad Date: 18-04-2023

TEST REPORT ON WET MIX MACADAM MIX (GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**94.36**	95-100
26.50	**---**	-
22.40	**74.14**	60-80
11.20	**52.15**	40-60
4.75	**36.40**	25-40
2.36	**26.71**	15-30
0.600	**18.04**	8-22
0.075	**3.43**	0-5

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TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)–1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.50%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.60 %**	Not more than 35.0 %
3.	Water absorption, %	**0.41 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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NO: BTP- D/PMC/TATA /WMM Grad Date: 18-04-2023

TEST REPORT ON WET MIX MACADAM MIX (GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**98.40**	95-100
26.50	---	-
22.40	**71.15**	60-80
11.20	**53.25**	40-60
4.75	**32.65**	25-40
2.36	**24.95**	15-30
0.600	**18.30**	8-22
0.075	**4.15**	0-5

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TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)–1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.63%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.34 %**	Not more than 35.0 %
3.	Water absorption, %	**0.41%**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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NO: BTP- D/PMC/TATA /WMM Grad

Date: 18-04-2023

TEST REPORT ON WET MIX MACADAM MIX (GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	95.45	95-100
26.50	---	-
22.40	70.15	60-80
11.20	54.25	40-60
4.75	35.90	25-40
2.36	23.05	15-30
0.600	17.25	8-22
0.075	3.50	0-5

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TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)–1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.13%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.98 %**	Not more than 35.0 %
3.	Water absorption, %	**0.43 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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NO: BTP- D/PMC/TATA /WMM Grad Date: 19-04-2023

TEST REPORT ON WET MIX MACADAM MIX (GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**95.10**	95-100
26.50	---	-
22.40	**72.35**	60-80
11.20	**54.80**	40-60
4.75	**31.55**	25-40
2.36	**25.30**	15-30
0.600	**18.90**	8-22
0.075	**3.15**	0-5

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TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)–1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**26.71%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.53%**	Not more than 35.0 %
3.	Water absorption, %	**0.43 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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NO: BTP- D/PMC/TATA /WMM Grad Date: 19-04-2023

TEST REPORT ON WET MIX MACADAM MIX (GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**98.40**	95-100
26.50	**---**	-
22.40	**71.50**	60-80
11.20	**52.60**	40-60
4.75	**34.80**	25-40
2.36	**22.15**	15-30
0.600	**17.30**	8-22
0.075	**4.10**	0-5

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TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)–1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.55%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.38%**	Not more than 35.0 %
3.	Water absorption, %	**0.41%**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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NO: BTP- D/PMC/TATA /BIT VG-30 Date: 27-04-2023

1. TEST REPORT ON BITUMEN SAMPLE:

Sub: Testing of Bitumen sample VG-30 Grade.

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

Technical Reference: Ministry of Road Transport and Highways, V Revision, 2013 and IS 73: 1992.

TABLE 1.1 ;

SL No	Details	Test Results	Requirements as per I.S 73 –1992 Specifications
1.	Penetration at 25^0 C	**53.25^0 C**	Min. 45
2.	Ductility Value at 25^0 C	**108.40 cm**	40
3.	Flash point	**245^0 C**	Minimum 220^0 C
4.	Softening point	**52.00^0 C**	Min. 47

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NO: BTP- D/PMC/TATA /**BIT-CA** **Date: 27-04-2023**

1. TEST REPORT ON COARSE AGGREGATE:

Sub: Testing of Coarse Aggregate used in Dense Graded Bituminous Macadam.

Sub: Testing of Bitumen sample VG-30 Grade.

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

TABLE 1.1 ;

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)–1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**22.15%**	Not more than 27.00 % for DBM
2.	Combined Flakiness and Elongation index, %	**25.10%**	Not more than 35.0 %
3.	Water absorption, %	**0.43%**	Not more than 2.0 %
4.	Specific gravity	**2.60**	-------
5.	Soundness	**6.80 %**	Max. 12 % in Sodium Sulphate

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NO: BTP- D/PMC/TATA /**BIT-EX**

Date: 27-04-2023

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.

Sub: Testing of Bitumen sample VG-30 Grade.

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.52 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	**Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)**	**Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)**
37.5	**100**	100
26.5	**96.24**	90-100
19.0	**81.16**	71-95
13.20	**74.41**	56-80
4.75	**48.71**	38-54
2.36	**36.04**	28-42
0.300	**17.89**	7-21
0.075	**6.39**	2-8

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NO: BTP- D/PMC/TATA **/BIT-STB** Date: 27-04-2023

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.

Sub: Testing of Bitumen sample VG-30 Grade.

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1225**	900
2	Marshall Flow at 60°C, mm.	**3.21**	2.0 - 4.0

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NO: BTP- D/PMC/TATA /**BIT-EX** **Date: 27-04-2023**

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.

Sub: Testing of Bitumen sample VG-30 Grade.

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.50 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	**Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)**	**Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)**
37.5	**100**	100
26.5	**96.44**	90-100
19.0	**80.56**	71-95
13.20	**72.61**	56-80
4.75	**47.09**	38-54
2.36	**35.79**	28-42
0.300	**18.26**	7-21
0.075	**5.16**	2-8

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NO: BTP- D/PMC/TATA /**BIT**

Date: 27-04-2023

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.

Sub: Testing of Bitumen sample VG-30 Grade.

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1260**	900
2	Marshall Flow at 60°C, mm.	**3.40**	2.0 - 4.0

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NO: BTP- D/PMC/TATA **/BIT-VG-30** **Date: 28-04-2023**

1. TEST REPORT ON BITUMEN SAMPLE:

Sub: Testing of Bitumen sample VG-30 Grade.

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

Technical Reference: Ministry of Road Transport and Highways, V Revision, 2013 and IS 73: 1992.

TABLE 1.1 ;

SL No	Details	Test Results	Requirements as per I.S 73 –1992 Specifications
1.	Penetration at 25^0 C	**51.15^0 C**	Min. 45
2.	Ductility Value at 25^0 C	**107.0 cm**	40
3.	Flash point	**235^0 C**	Minimum 220^0 C
4.	Softening point	**50.6^0 C**	Min. 47

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NO: BTP- D/PMC/TATA /**BIT-CA** **Date: 28-04-2023**

1. TEST REPORT ON COARSE AGGREGATE:

Sub: Testing of Coarse Aggregate used in Bituminous Concrete.

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

TABLE 1.1 ;

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)–1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**22.80 %**	Not more than 24.00 %
2.	Combined Flakiness and Elongation index, %	**27.60%**	Not more than 35.0 %
3.	Water absorption, %	**0.41%**	Not more than 2.0 %
4.	Specific gravity	**2.60**	-------
5.	Soundness	**5.29%**	Max. 12 % in Sodium Sulphate

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NO: BTP- D/PMC/TATA /BIT -EX

Date: 28-04-2023

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.40 %**

2. **Gradation Test**

Sieve Size, mm	**Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)**	**Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)**
19.0	**100**	100
13.2	**97.25**	90-100
9.5	**82.10**	70-88
4.75	**65.50**	53-71
2.36	**52.70**	42-58
1.18	**40.35**	34-48
0.600	**34.75**	26-38
0.300	**23.60**	18-28
0.150	**18.25**	12-20
0.075	**7.15**	4-10

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NO: BTP- D/PMC/TATA /**BIT-STB** **Date: 28-04-2023**

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1350**	900
2	Marshall Flow at 60°C, mm.	**3.60**	2.0 - 4.0

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NO: BTP- D/PMC/TATA /BIT-EX **Date: 28-04-2023**

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.42%**

2. **Gradation Test**

Sieve Size, mm	**Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)**	**Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)**
19.0	**100**	100
13.2	**95.24**	90-100
9.5	**84.11**	70-88
4.75	**67.44**	53-71
2.36	**53.81**	42-58
1.18	**41.69**	34-48
0.600	**33.49**	26-38
0.300	**25.62**	18-28
0.150	**17.27**	12-20
0.075	**8.39**	4-10

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NO: BTP- D/PMC/TATA **/BIT-STB** **Date: 28-04-2023**

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1360**	900
2	Marshall Flow at 60°C, mm.	**3.65**	2.0 - 4.0

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NO: NO: BTP- D/PMC/TATA /BIT-EX **Date: 28-04-2023**

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.44 %**

2. **Gradation Test**

Sieve Size, mm	**Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)**	**Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)**
19.0	**100**	100
13.2	**96.75**	90-100
9.5	**82.35**	70-88
4.75	**67.90**	53-71
2.36	**53.35**	42-58
1.18	**43.65**	34-48
0.600	**32.00**	26-38
0.300	**24.30**	18-28
0.150	**18.80**	12-20
0.075	**7.70**	4-10

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NO: BTP- D/PMC/TATA /**BIT-STB** **Date: 28-04-2023**

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1355**	900
2	Marshall Flow at 60°C, mm.	**3.70**	2.0 - 4.0

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NO: BTP- D/PMC/TATA /BIT-EX **Date: 28-04-2023**

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.43 %**

2. **Gradation Test**

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**95.00**	90-100
9.5	**81.40**	70-88
4.75	**65.90**	53-71
2.36	**52.30**	42-58
1.18	**44.75**	34-48
0.600	**30.25**	26-38
0.300	**24.80**	18-28
0.150	**18.65**	12-20
0.075	**7.00**	4-10

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NO: BTP- D/PMC/TATA /**BIT-STB** **Date: 28-04-2023**

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1385**	900
2	Marshall Flow at 60°C, mm.	**3.75**	2.0 - 4.0

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NO: BTP- D/PMC/TATA /DRN. Slab Date: 03/04/2023

Precast Drain Slab 100mm Thick (Core Cutting Method) Test Report

Sub: Testing of Concrete Drain Slab (Core Cutting Method) – Compressive Strength

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CORE

CORE SPECIMENS

Grade Of concrete: **M20**
Technical Ref:. IS.516-1959 (Reaffirmed), Sp 24-1983.

Table 1.1

Dia of Specimens: 50 mm =D

SL No	Height of core (H)mm	Weight of Core (KG)	Dencity of core (KG/m3)	H/D	Correction factor of H/D	Load KN	Compressive Strength- N/mm2	Correction Factor for dia (Strength x1.08)	Corrected Compressive Strength	Equavenent Cube Compressive Strength
1.	81	.355	2317.9	1.56	.960	34.5	17.57	18.98	18.22	22.9
2.	80	.368	2342.7	1.60	.960	35.6	18.13	19.58	18.80	23.4
3.	82	.382	2372.5	1.64	.960	33.2	16.91	18.26	17.53	21.9

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NO: BTP- D/PMC/TATA /DRN. Slab Date: 23/05/2023

Precast Drain Slab 100mm Thick (Core Cutting Method) Test Report

Sub: Testing of Concrete Drain Slab (Core Cutting Method) – Compressive Strength

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CORE

CORE SPECIMENS

Grade Of concrete: **M20**
Technical Ref:. IS.516-1959 (Reaffirmed), Sp 24-1983.

Table 1.1
Dia of Specimens: 50 mm =D

SL No	Height of core (H)mm	Weight of Core (KG)	Dencity of core (KG/m3)	H/D	Correction factor of H/D	Load KN	Compressive Strength-N/mm2	Correction Factor for dia (Strength x1.08)	Corrected Compressive Strength	Equavenent Cube Compressive Strength
1.	78	.355	2317.9	1.56	.960	34.5	17.57	18.98	18.22	22.7
2.	80	.368	2342.7	1.60	.960	35.6	18.13	19.58	18.80	23.5
3.	82	.382	2372.5	1.64	.960	33.2	16.91	18.26	17.53	21.91

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NO: BTP- D/PMC/TATA /CUL. Slab

Date: 23/05/2023

Precast Culvert Slab 230mm Thick (Core Cutting Method) Test Report

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CORE

CORE SPECIMENS

Grade Of concrete: **M20**
Technical Ref:. IS.516-1959 (Reaffirmed), Sp 24-1983.

Table 1.1

Dia of Specimens: 100 mm =D

SL No	Height of core (H)mm	Weight of Core (KG)	Dencity of core (KG/m3)	H/D	Correction factor of H/D	Load KN	Compressive Streng th-N/mm2	Correction Factor for dia (Strength x1.08)	Corrected Compressive Strength	Equavenent Cube Compressive Strength
1.	170	3.118	2335.2	1.70	.960	142.5	18.14	19.60	18.81	23.4
2.	173	3.231	2377.9	1.73	.960	138.6	17.65	19.06	18.30	22.2
3.	173	3.291	2394.4	1.75	.960	140.3	17.86	19.29	18.52	23.1

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NO: BTP- D/PMC/TATA /KERB

Date: 23/05/2023

KerbStone (Core Cutting Method) Test Report

Sub: Testing of concrete Kerb Stones (Core Cutting Method) – Compressive Strength)

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CORE

CORE SPECIMENS

Grade Of concrete: **M15**
Technical Ref:. IS.516-1959 (Reaffirmed), Sp 24-1983.

Table 1.1

Dia of Specimens: 50 mm =D

SL No	Height of core (H)mm	Weight of Core (KG)	Density of core (KG/m3)	H/D	Correction factor of H/D	Load KN	Compressive Strength - N/mm2	Correction Factor for dia (Strength x1.08)	Corrected Compressive Strength	Equavent Cube Compressive Strength
1.	78	.354	2311.4	1.56	.960	26.3	13.39	14.47	13.39	17.36
2.	80	.368	2342.7	1.60	.960	26.3	13.39	14.47	13.39	17.36
3.	82	.382	2372.5	1.64	.960	25.10	12.78	13.81	13.25	16.57

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NO: BTP- D/PMC/TATA /KERB

Date: 23/05/2023

KerbStone (Core Cutting Method) Test Report

Sub: Testing of concrete Kerb Stones (Core Cutting Method) – Compressive Strength)

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CORE

CORE SPECIMENS

Grade Of concrete: **M15**
Technical Ref:. IS.516-1959 (Reaffirmed), Sp 24-1983.

Table 1.1

Dia of Specimens: 50 mm =D

SL No	Height of core (H)mm	Weight of Core (KG)	Dencity of core (KG/m3)	H/D	Correction factor of H/D	Load KN	Compressive Strength - N/mm2	Correction Factor for dia (Strength x1.08)	Corrected Compressive Strength	Equavenent Cube Compressive Strength
1.	78	.354	2311.4	1.56	.960	26.3	13.39	14.47	13.39	17.31
2.	80	.368	2342.7	1.60	.960	26.3	13.39	14.47	13.39	17.16
3.	82	.382	2372.5	1.64	.960	25.10	12.78	13.81	13.25	16.51

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RESULTS OF PHYSICAL PROPERTIES OF TMT STEEL

SPECIMENS 8 & 10 mm ,DIA

Date of Testing : 12/02/2023

Grade Of Steel: **Fe 500.**
Technical Ref: IS.1786:2008, IS 1608:2005, IS 1599:1985(Reaffined-2006).

Table

SL No	Grade	Nominal Size of Rebar (Dia)	Mass (KG/meter)	Tensile Strength		
				20% Proof Stress / Yeild Stress (N/mm2)	Tensile Strength (N/mm2)	Elongation Percent on gauge Length
1.	Fe 500	8 mm	.395	530	530	13.60
2.	Fe 500	10mm	.61	555	570	14.75

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

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RESULTS OF PHYSICAL PROPERTIES OF TMT STEEL

SPECIMENS 8 & 10 mm ,DIA

Date of Testing : 13/04/2023

Grade Of Steel: **Fe 500.**
Technical Ref: IS.1786:2008, IS 1608:2005, IS 1599:1985(Reaffined-2006).

Table

SL No	Grade	Nominal Size of Rebar (Dia)	Mass (KG/meter)	Tensile Strength		
				20% Proof Stress / Yeild Stress (N/mm2)	Tensile Strength (N/mm2)	Elongation Percent on gauge Length
1.	Fe 500	8 mm	.33	560	560	13.80
2.	Fe 500	10mm	.65	572	580	14.65

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

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NO: BTP- D/PMC/TATA/Raft

Date: 19/02/2022

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strength N/mm2	Average Strength N/mm2
1	IOB BANK ROAD, 8TH MAIN, AND 2ND CROSS ROAD LHS AND RHS	12-02-2023	19-02-2023	8.20	7	360.00	16.00	15.56
2		"	"	8.10	"	390.00	17.33	
3		"	"	8.25	"	345.00	15.33	
4		"	"	8.30	"	325.00	14.44	
5		"	"	8.40	"	330.00	14.67	
6		"	"	8.15	"	350.00	15.56	

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NO: BTP- D/PMC/TATA/Raft

Date: 18/05/2022

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table 1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strength N/mm2	Average Strength N/mm2
1	IOB BANK ROAD, 8TH MAIN, AND 2ND CROSS ROAD LHS AND RHS	12-02-2023	12-03-2023	8.40	28	590.00	26.22	25.33
2		"	"	8.00	"	560.00	24.89	
3		"	"	8.45	"	540.00	24.00	
4		"	"	8.25	"	560.00	24.89	
5		"	"	8.20	"	570.00	25.33	
6		"	"	8.15	"	600.00	26.67	

SHRIYA CONSTRUCTION AND CONSULTANCY

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MOBILE:9945744759

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NO: BTP- D/PMC/TATA/Raft

Date: 09/03/2023

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strengt h N/mm2	Average Strength N/mm2
1	BALAJI LAYOUT MAIN ROAD LHS AND RHS	02-03-2023	09-03-2023	8.30	7	360.00	16.00	17.19
2		"	"	8.20	"	390.00	17.33	
3		"	"	8.10	"	420.00	18.67	
4		"	"	8.20	"	400.00	17.78	
5		"	"	8.10	"	390.00	17.33	
6		"	"	8.00	"	360.00	16.00	

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NO: BTP- D/PMC/TATA/Raft

Date: 09/03/2023

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strength N/mm2	Average Strength N/mm2
1	BALAJI LAYOUT MAIN ROAD LHS AND RHS	02-03-2023	30-03-2023	8.30	28	560.00	24.89	23.70
2		"	"	8.50	"	520.00	23.11	
3		"	"	8.40	"	500.00	22.22	
4		"	"	8.20	"	530.00	23.56	
5		"	"	8.30	"	550.00	24.44	
6		"	"	8.15	"	540.00	24.00	

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NO: BTP- D/PMC/TATA/Raft

Date: 13/03/2023

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strengt h N/mm2	Average Strength N/mm2
1	BALAJI LAYOUT CROSS ROADS - 10TH AND 9TH LHS AND RHS	06-03-2023	13-03-2023	8.20	7	380.00	16.89	15.67
2		"	"	8.30	"	360.00	16.00	
3		"	"	8.10	"	355.00	15.78	
4		"	"	8.30	"	320.00	14.22	
5		"	"	8.00	"	360.00	16.00	
6		"	"	8.10	"	340.00	15.11	

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NO: BTP- D/PMC/TATA/Raft

Date: 03/04/2023

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strengt h N/mm2	Average Strength N/mm2
1	BALAJI LAYOUT CROSS ROADS - 10TH AND 9TH LHS AND RHS	06-03-2023	03-04-2023	8.15	28	540.00	24.00	23.67
2		"	"	8.55	"	560.00	24.89	
3		"	"	8.20	"	520.00	23.11	
4		"	"	8.30	"	560.00	24.89	
5		"	"	8.40	"	510.00	22.67	
6		"	"	8.20	"	505.00	22.44	

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NO: BTP- D/PMC/TATA/Raft

Date: 23/03/2023

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strengt h N/mm2	Average Strength N/mm2
1	BALAJI LAYOUT CROSS ROADS - 8TH AND 7TH LHS AND RHS	16-03-2023	23-03-2023	8.03	7	400.00	17.78	18.22
2		"	"	8.20	"	407.40	18.11	
3		"	"	8.15	"	433.00	19.24	
4		"	"	8.30	"	407.40	18.11	
5		"	"	8.45	"	402.00	17.87	
6		"	"	8.30	"	410.00	18.22	

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NO: BTP- D/PMC/TATA/Raft

Date: 13/04/2023

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strengt h N/mm2	Average Strength N/mm2
1	BALAJI LAYOUT CROSS ROADS - 8TH AND 7TH LHS AND RHS	16-03-2023	13-04-2023	8.12	28	489.00	21.73	23.11
2		"	"	8.36	"	509.00	22.62	
3		"	"	8.22	"	512.00	22.76	
4		"	"	8.20	"	555.00	24.67	
5		"	"	8.30	"	530.00	23.56	
6		"	"	8.45	"	525.00	23.33	

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NO: BTP- D/PMC/TATA/Raft

Date: 11/04/2023

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strengt h N/mm2	Average Strength N/mm2
1	BALAJI LAYOUT CROSS ROADS - 6TH AND 75H LHS AND RHS	04-04-2023	11-04-2023	8.20	7	340.00	15.11	15.78
2		"	"	8.30	"	370.00	16.44	
3		"	"	8.50	"	400.00	17.78	
4		"	"	8.45	"	320.00	14.22	
5		"	"	8.20	"	360.00	16.00	
6		"	"	8.00	"	340.00	15.11	

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#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: BTP- D/PMC/TATA/Raft

Date: 02/05/2023

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table 1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strengt h N/mm2	Average Strength N/mm2
1	BALAJI LAYOUT CROSS ROADS - 6TH AND 75H LHS AND RHS	04-04-2023	02-05-2023	8.00	28	540.00	24.00	23.41
2		"	"	8.20	"	600.00	26.67	
3		"	"	8.35	"	480.00	21.33	
4		"	"	8.40	"	495.00	22.00	
5		"	"	8.30	"	535.00	23.78	
6		"	"	8.30	"	510.00	22.67	

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#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: BTP- D/PMC/TATA/Raft

Date: 24/03/2023

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strength N/mm2	Average Strength N/mm2
1	BALAJI LAYOUT CROSS ROADS - 4TH TO 1ST LHS AND RHS	17-03-2023	24-03-2023	8.33	7	398.00	17.69	17.98
2		"	"	8.41	"	409.00	18.18	
3		"	"	8.30	"	435.00	19.33	
4		"	"	8.10	"	410.00	18.22	
5		"	"	8.00	"	395.00	17.56	
6		"	"	8.25	"	380.00	16.89	

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NO: BTP- D/PMC/TATA/Raft

Date: 14/04/2023

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strength N/mm2	Average Strength N/mm2
1	BALAJI LAYOUT CROSS ROADS - 4TH TO 1ST LHS AND RHS	17-03-2023	14-04-2023	8.21	28	505.00	22.44	23.20
2		"	"	8.23	"	531.00	23.60	
3		"	"	8.28	"	536.00	23.82	
4		"	"	8.10	"	540.00	24.00	
5		"	"	8.15	"	510.00	22.67	
6		"	"	8.43	"	510.00	22.67	

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#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: BTP- D/PMC/TATA/Raft

Date: 20/04/2023

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table 1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strengt h N/mm2	Average Strength N/mm2
1	5TH MAIN ROAD LHS AND RHS	13-04-2023	20-04-2023	8.61	7	425.00	18.89	17.36
2		"	"	8.34	"	416.00	18.49	
3		"	"	8.51	"	375.00	16.67	
4		"	"	8.56	"	367.00	16.31	
5		"	"	8.41	"	381.00	16.93	
6		"	"	8.23	"	379.00	16.84	

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#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: BTP- D/PMC/TATA/Raft

Date: 11/05/2023

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strength N/mm2	Average Strength N/mm2
1	5TH MAIN ROAD LHS AND RHS	13-04-2023	11-05-2023	8.41	28	532.00	23.64	23.36
2		"	"	8.35	"	543.00	24.13	
3		"	"	8.27	"	525.00	23.33	
4		"	"	8.22	"	555.00	24.67	
5		"	"	8.35	"	512.00	22.76	
6		"	"	8.14	"	486.00	21.60	

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NO: BTP- D/PMC/TATA/Side Walls

Date: 20/02/2023

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table 1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strength N/mm2	Average Strength N/mm2
1	IOB BANK ROAD, 8TH MAIN, AND 2ND CROSS ROAD LHS AND RHS	13-02-2023	20-02-2023	8.33	7	398.00	17.69	16.77
2		"	"	8.23	"	352.00	15.64	
3		"	"	8.24	"	360.00	16.00	
4		"	"	8.25	"	378.00	16.80	
5		"	"	7.90	"	391.00	17.38	
6		"	"	7.95	"	385.00	17.11	

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NO: BTP- D/PMC/TATA/Side Walls

Date: 13/03/2023

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strengt h N/mm2	Average Strength N/mm2
1	IOB BANK ROAD, 8TH MAIN, AND 2ND CROSS ROAD LHS AND RHS	13-02-2023	13-03-2023	8.10	28	560.00	24.89	25.00
2		"	"	8.00	"	568.00	25.24	
3		"	"	8.25	"	581.00	25.82	
4		"	"	8.24	"	597.00	26.53	
5		"	"	8.15	"	549.00	24.40	
6		"	"	8.25	"	520.00	23.11	

SHRIYA CONSTRUCTION AND CONSULTANCY

Assistant Executive Engineer
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#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: BTP- D/PMC/TATA/Side Walls

Date: 11/03/2023

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strengt h N/mm2	Average Strength N/mm2
1	BALAJI LAYOUT MAIN ROAD LHS AND RHS	04-03-2023	11-03-2023	8.15	7	390.00	17.33	17.63
2		"	"	8.32	"	410.00	18.22	
3		"	"	8.15	"	430.00	19.11	
4		"	"	8.00	"	400.00	17.78	
5		"	"	8.25	"	385.00	17.11	
6		"	"	8.25	"	365.00	16.22	

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NO: BTP- D/PMC/TATA/Side Walls Date: 01/04/2023

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table 1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strength N/mm2	Average Strength N/mm2
1	BALAJI LAYOUT MAIN ROAD LHS AND RHS	04-03-2023	01-04-2023	8.12	28	575.00	25.56	25.11
2		"	"	8.25	"	524.00	23.29	
3		"	"	8.36	"	615.00	27.33	
4		"	"	8.14	"	542.00	24.09	
5		"	"	8.20	"	573.00	25.47	
6		"	"	8.30	"	561.00	24.93	

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NO: BTP- D/PMC/TATA/Side Walls

Date: 20/03/2023

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table 1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strengt h N/mm2	Average Strength N/mm2
1	BALAJI LAYOUT CROSS ROADS - 10TH AND 9TH LHS AND RHS	13-03-2023	20-03-2023	8.00	7	421.00	18.71	16.50
2		"	"	8.15	"	357.00	15.87	
3		"	"	8.41	"	385.00	17.11	
4		"	"	8.52	"	364.00	16.18	
5		"	"	8.30	"	350.00	15.56	
6		"	"	8.05	"	350.00	15.56	

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NO: BTP- D/PMC/TATA/Side Walls

Date: 10/04/2023

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strengt h N/mm2	Average Strength N/mm2
1	BALAJI LAYOUT CROSS ROADS - 10TH AND 9TH LHS AND RHS	13-03-2023	10-04-2023	8.05	28	536.00	23.82	23.21
2		"	"	8.21	"	524.00	23.29	
3		"	"	8.65	"	519.00	23.07	
4		"	"	8.30	"	539.00	23.96	
5		"	"	8.40	"	505.00	22.44	
6		"	"	8.20	"	510.00	22.67	

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NO: BTP- D/PMC/TATA/Side Walls

Date: 25/03/2023

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strength N/mm2	Average Strength N/mm2
1	BALAJI LAYOUT CROSS ROADS - 4TH TO 1ST LHS AND RHS AND 8TH AND 7TH CROSS ROAD	18-03-2023	25-03-2023	8.20	7	400.00	17.78	18.04
2		"	"	8.40	"	410.00	18.22	
3		"	"	8.20	"	420.00	18.67	
4		"	"	8.05	"	425.00	18.89	
5		"	"	8.10	"	395.00	17.56	
6		"	"	8.36	"	385.00	17.11	

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NO: BTP- D/PMC/TATA/Side Walls

Date: 15/04/2023

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table 1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strength N/mm2	Average Strength N/mm2
1	BALAJI LAYOUT CROSS ROADS - 4TH TO 1ST LHS AND RHS. AND 8TH AND 7TH CROSS ROAD	18-03-2023	15-04-2023	8.21	28	500.00	22.22	23.20
2		"	"	8.23	"	531.00	23.60	
3		"	"	8.28	"	546.00	24.27	
4		"	"	8.10	"	540.00	24.00	
5		"	"	8.15	"	505.00	22.44	
6		"	"	8.43	"	510.00	22.67	

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NO: BTP- D/PMC/TATA/Side Walls

Date: 13/04/2023

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table 1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strength N/mm2	Average Strength N/mm2
1	BALAJI LAYOUT CROSS ROADS - 6TH AND 75H LHS AND RHS	06-04-2023	13-04-2023	8.40	7	400.00	17.78	17.67
2		"	"	8.34	"	420.00	18.67	
3		"	"	8.40	"	387.00	17.20	
4		"	"	8.56	"	399.00	17.73	
5		"	"	8.41	"	400.00	17.78	
6		"	"	8.23	"	380.00	16.89	

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NO: BTP- D/PMC/TATA/Side Walls

Date: 04/05/2023

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strengt h N/mm2	Average Strength N/mm2
1	BALAJI LAYOUT CROSS ROADS - 6TH AND 75H LHS AND RHS	06-04-2023	04-05-2023	8.35	28	562.00	24.98	24.35
2		"	"	8.42	"	547.00	24.31	
3		"	"	8.31	"	582.00	25.87	
4		"	"	8.20	"	520.00	23.11	
5		"	"	8.00	"	511.00	22.71	
6		"	"	8.15	"	565.00	25.11	

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NO: BTP- D/PMC/TATA/Side Walls

Date: 22/04/2023

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Byatarayanapura Division, BBMP Bangalore.

Name of Agency/ contractor: M/sK R Constructions (Prop. Sri C Mahesh).

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strengt h N/mm2	Average Strength N/mm2
1	5TH MAIN ROAD LHS AND RHS	15-04-2023	22-04-2023	8.22	7	418.00	18.58	17.51
2		"	"	8.41	"	385.00	17.11	
3		"	"	8.25	"	392.00	17.42	
4		"	"	8.63	"	376.00	16.71	
5		"	"	8.45	"	384.00	17.07	
6		"	"	8.32	"	409.00	18.18	

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NO: BTP- D/PMC/TATA/Side Walls

Date: 13/05/2023

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- IMPROVEMENTS TO ROAD DRAINS AND OTHER ALLIED WORKS IN TATANAGAR, LKR NAGAR, DEVINAGAR, BHADRAPPA LAYOUT AND SURROUNDING AREAS IN WARD NO. 08, NEW WARD NO. 12.

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CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table 1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strength N/mm2	Average Strength N/mm2
1	5TH MAIN ROAD LHS AND RHS	15-04-2023	13-05-2023	8.00	28	533.00	23.69	22.94
2		"	"	8.23	"	514.00	22.84	
3		"	"	8.35	"	529.00	23.51	
4		"	"	8.17	"	548.00	24.36	
5		"	"	8.59	"	494.00	21.96	
6		"	"	8.65	"	479.00	21.29	

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